PALM INTRANET

Day : Wednesday

Date: 8/23/2006
Time: 10:55:20

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	**First Name**	
Sharma	Vinod	Search

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Back to PALM | ASSIGNMENT | OASIS | Home page

Refine Search

Search Results -

Term	Documents
L-TYPE	4445
L-TYPES	35
CA	3120470
CAS	144502
CHANNEL	1735236
CHANNELS	857443
GI	252153
GIS	14223
((L-TYPE ADJ CA ADJ CHANNEL) AND 7 AND GI).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
(L7 AND (((L-TYPE ADJ CA) ADJ CHANNEL) AND GI)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L9

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Wednesday, August 23, 2006 Purge Queries Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND			
L9	L7 and (((L-type adj Ca) adj channel) and Gi)	1	L9

L8	L7 and (kir/GEM and Gi)	0	L8
L7	L6 and (vector)	421	L7
L6	L5 and (arrhythmias and cardiac)	876	L6
L5	(kir/GEM or Gi or ICaL) or ((L-type adj Ca) adj channel)	356255	L5
L4	(bio-ablation)	3	L4
L3	L1 and (kir/GEM or Gi or (L-type adj Ca))	1	L3
L2	L1 and bioablation	0	L2
L1	Sharma-Vinod.in.	61	L1

END OF SEARCH HISTORY

Welcome to DialogClassic Web(tm)

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 Dialog level 05.12.03D
Last logoff:  22aug06 12:12:12
Logon file001 23aug06 10:16:43
          *** ANNOUNCEMENTS ***
                    ***
NEW FILES RELEASED
***EMCare (File 45)
***Trademarkscan - South Korea (File 655)
***Regulatory Affairs Journals (File 183)
***Index Chemicus (File 302)
***Inspec (File 202)

RESUMED UPDATING
***File 141, Reader's Guide Abstracts
                    ***
RELOADS COMPLETED
***File 11, PsycInfo
***File 516, D&B--Dun's Market Identifiers
***File 523, D&B European Dun's Market Identifiers
***File 531, American Business Directory
*** The 2005 reload of the CLAIMS files (Files 340, 341, 942)
is now available online.
                                  ***
DATABASES REMOVED
***File 196, FINDEX ***File 468, Public Opinion Online (POLL)

Chemical Structure Searching now available in Prous Science Drug
Data Report (F452), Prous Science Drugs of the Future (F453),
IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein
Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus
(File 302).
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>>>PROFILE is in a suspended state.
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 * * *

File   1:ERIC 1966-2006/Jul
       (c) format only 2006 Dialog

      Set  Items  Description
      ---  -----  -----------
Cost is in DialUnits
?

B 155, 5, 73
       23aug06 10:16:56 User259876 Session D910.1
            $0.81    0.232 DialUnits File1
     $0.81  Estimated cost File1
     $0.05  INTERNET
     $0.86  Estimated cost this search
     $0.86  Estimated total session cost   0.232 DialUnits

SYSTEM:OS  - DIALOG OneSearch
  File 155:MEDLINE(R) 1950-2006/Aug 22
         (c) format only 2006 Dialog
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  File   5:Biosis Previews(R) 1969-2006/Aug W3
         (c) 2006 The Thomson Corporation
  File  73:EMBASE 1974-2006/Aug 23
         (c) 2006 Elsevier B.V.

      Set  Items  Description
      ---  -----  -----------
?

S (BIO-ABLATION)
      S1       0  (BIO-ABLATION)
?

S (KIR/GEM AND GI)
>>>Term "GEM" is not defined in one or more files
           3587  KIR/GEM
          42207  GI
      S2      14  (KIR/GEM AND GI)
?

S S2 AND VECTOR
             14  S2
         313949  VECTOR
      S3      0  S2 AND VECTOR
?

S S2 AND (CARDIAC OR ARRHYTHMIAS)
             14  S2
         859568  CARDIAC
          78957  ARRHYTHMIAS
      S4      1  S2 AND (CARDIAC OR ARRHYTHMIAS)
?

T S4/3,K/ALL

  4/3,K/1     (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

11342040   PMID: 9159640
 Inwardly rectifying potassium channels: their molecular heterogeneity and
 function.
  Isomoto S; Kondo C; Kurachi Y
  Department of Pharmacology II, Faculty of Medicine, Osaka University,
Suita, Japan.
  Japanese journal of physiology (JAPAN)  Feb 1997,  47  (1)  p11-39,
ISSN 0021-521X--Print  Journal Code: 2985184R
  Publishing Model Print
  Document type: Journal Article; Review
  Languages: ENGLISH
  Main Citation Owner: NLM
  Record type: MEDLINE; Completed

  A variety of cells including cardiac myocytes and neuronal cells
possess inwardly rectifying K+ ( Kir ) channels through which currents flow
more readily in the inward direction than outward. These K...

...K+ ions across cell membrane. Recent molecular biological dissection has
shown that the DNAs encoding Kir channels constitute a new family of K+
channels whose subunits contain two putative transmembrane domains and a
```

pore-forming region. So far, more than ten cDNAs of Kir channel subunits have been isolated and classified into four subfamilies: 1) IRK subfamily (IRK1-3...

...1-1.3), 2) GIRK subfamily (GIRK1-4/Kir3.1-3.4), 3) ATP-dependent Kir subfamily (ROMK1/Kir1.1, K(AB)-2/Kir4.1), and 4) ATP-sensitive Kir subfamily (uKATP-1/Kir6.1, BIR/Kir6.2). Xenopus oocytes injected with the cRNAs of IRKs elicit classical Kir channel currents. GIRKs, as heteromultimers, compose the G protein-gated Kir (KG) channels, which are regulated by a variety of Gi /Go-coupled inhibitory neurotransmitter receptors such as m2-mus-carinic, serotonergic (5HT1A), GABAB, somatostatin and...

... receptors, the so-called ATP-sensitive K+ channels. Thus, it is a feature of the Kir channel family that each subfamily plays a specific physiological functional role. The (Na+)-activated Kir channels identified electrophysiologically in neurons and cardiac myocytes have not yet been cloned. In this review, we overviewed the current understandings of the features of the molecular structures and functions of the four main subfamilies of Kir channels.
?

```
Set     Items   Description
S1          0   (BIO-ABLATION)
S2         14   (KIR/GEM AND GI)
S3          0   S2 AND VECTOR
S4          1   S2 AND (CARDIAC OR ARRHYTHMIAS)
?

S S2 AND NOT PY>2003
>>>Operator "NOT" in invalid position
?

S S2 NOT PY>2003
              14  S2
         4322248  PY>2003
      S5      13  S2 NOT PY>2003
?

RD
      S6      11  RD  (unique items)
?

T S6/3,K/ALL
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6/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)
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13990704 PMID: 12391298

Two different inward rectifier K+ channels are effectors for transmitter-induced slow excitation in brain neurons.

Bajic D; Koike M; Albsoul-Younes A M; Nakajima S; Nakajima Y

Department of Anatomy and Cell Biology, University of Illinois, Chicago, IL 60612, USA.

Proceedings of the National Academy of Sciences of the United States of America (United States) Oct 29 2002, 99 (22) p14494-9, ISSN 0027-8424 --Print Journal Code: 7505876

Contract/Grant No.: AG06093; AG; NIA; T32 HL07692; HL; NHLBI

Publishing Model Print-Electronic
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... excites large neurons of the nucleus basalis (NB) by inhibiting an inward rectifier K(+) channel (Kir). The properties of the Kir in NB (KirNB) in comparison with the G protein-coupled Kir (GIRK) were investigated. Single-channel recordings with the cell-attached mode showed constitutively active KirNB...
... Application of Gbeta(1gamma2) to inside-out patches induced activity of a second type of Kir (GIRK). Application of Gbeta(1gamma2), however, did not change the KirNB activity. Sequestering Gbeta(1gamma2...
...; Inwardly-Rectifying Potassium Channels; GTP-Binding Protein alpha Subunit, Gi2; GTP-Binding Protein alpha Subunits, Gi -Go--pharmacology--PD ; GTP-Binding Proteins--pharmacology--PD; Neurons--cytology--CY; Neurons --drug effects--DE...
...Enzyme No.: Binding Protein alpha Subunit, Gi2); EC 3.6.1.46 (GTP-Binding Protein alpha Subunits, Gi -Go); EC 3.6.1.46 (Gnai2 protein, rat)
...Chemical Name: P; GTP-Binding Proteins; GTP-Binding Protein alpha Subunit, Gi2; GTP-Binding Protein alpha Subunits, Gi -Go; Gnai2 protein, rat

6/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12341986 PMID: 10098843
Activation of the endothelin receptor inhibits the G protein-coupled inwardly rectifying potassium channel by a phospholipase A2-mediated mechanism.
Rogalski S L; Cyr C; Chavkin C
Department of Pharmacology, University of Washington, Seattle 98195-7280, USA.
Journal of neurochemistry (UNITED STATES) Apr 1999, 72 (4) p1409-16, ISSN 0022-3042--Print Journal Code: 2985190R
Contract/Grant No.: DA04123; DA; NIDA; DA07278; DA; NIDA
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... malleable system to model the well-described, physiological interactions between Gq/11 - coupled receptor and Gi /o-coupled receptor signaling, we coexpressed the endothelin A receptor, the mu-opioid receptor, and the G protein-coupled inwardly rectifying potassium channel (Kir 3) heteromultimers in Xenopus laevis oocytes. Activation of the Gi /o-coupled mu-opioid receptor strongly increased Kir 3 channel current, whereas activation of the Gq/11-coupled endothelin A receptor inhibited the Kir 3 response evoked by mu-opioid receptor activation. The magnitude of the inhibition of Kir 3 was channel subtype specific; heteromultimers composed of Kir 3.1 and Kir 3.2 or Kir 3.1 and Kir 3.4 were significantly more sensitive to the effects of endothelin-1 than heteromultimers composed of Kir 3.1 and Kir 3.5. The difference in sensitivity of the heteromultimers suggests that the endothelin-induced inhibition...

... genistein. The data suggest the hypothesis that Gq/11-coupled receptor activation may interfere with Gi /o-coupled receptor signaling by the activation of phospholipase A2 and subsequent inhibition of effector...

6/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

11751475 PMID: 9560447
Agonist-independent inactivation and agonist-induced desensitization of the G protein-activated K+ channel (GIRK) in Xenopus oocytes.
Vorobiov D; Levin G; Lotan I; Dascal N
Department of Physiology and Pharmacology, Sackler School of Medicine, Tel Aviv University, Ramat Aviv, Israel.
Pflugers Archiv - European journal of physiology (GERMANY) Jun 1998, 436 (1) p56-68, ISSN 0031-6768--Print Journal Code: 0154720
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

The G-protein-activated K+ channels of the GIRK (Kir 3) family are activated by Gbetagamma subunits of heterotrimeric Gi /Go proteins. Atrial GIRK currents evoked by acetylcholine (ACh)1 via muscarinic m2 receptors (m2R...

6/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

11542190 PMID: 9374848
Primary structure and functional expression of a cortical collecting duct Kir channel.
Welling P A
Department of Physiology, University of Maryland School of Medicine, Baltimore 21201, USA.
American journal of physiology (UNITED STATES) Nov 1997, 273 (5 Pt 2) pF825-36, ISSN 0002-9513--Print Journal Code: 0370511
Contract/Grant No.: DK-01733; DK; NIDDK; DK-08271; DK; NIDDK
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Primary structure and functional expression of a cortical collecting duct Kir channel.
... collecting duct (CCD) principal cell depends on a small-conductance, inward-rectifying basolateral membrane K+ (Kir) channel. In the present study, a candidate cDNA encoding this K+ channel, CCD-IRK3, was...
... IRK3 shares a high degree of homology with a human brain inward-rectifier K+ channel (Kir 2.3). By Northern analysis, CCD-IRK3 transcript (2.9 kb) was readily detected in...

... permeability values (PK/Pi), Tl > or = Rb > or = K+ >> NH4 > Na; inward-slope conductance (GK/ Gi), Tl > or = K+ >> NH4 > Na > Rb] is

similar to the macroscopic CCD basolateral membrane K+ conductance (GK/ Gi , K+ >> NH4 > Rb; PK/Pi, Rb approximately equal to K+ >> NH4). CCD-IRK3 also exhibits...

... independent lines of evidence, CCD-IRK3 is a possible candidate for the small-conductance basolateral Kir channel in the CCD.

6/3,K/5 (Item 5 from file: 155)

11342040 PMID: 9159640

Inwardly rectifying potassium channels: their molecular heterogeneity and function.

Isomoto S; Kondo C; Kurachi Y
Department of Pharmacology II, Faculty of Medicine, Osaka University, Suita, Japan.

Japanese journal of physiology (JAPAN) Feb 1997, 47 (1) p11-39, ISSN 0021-521X--Print Journal Code: 2985184R
Publishing Model Print
Document type: Journal Article; Review
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

A variety of cells including cardiac myocytes and neuronal cells possess inwardly rectifying K+ (Kir) channels through which currents flow more readily in the inward direction than outward. These K...

...K+ ions across cell membrane. Recent molecular biological dissection has shown that the DNAs encoding Kir channels constitute a new family of K+ channels whose subunits contain two putative transmembrane domains and a pore-forming region. So far, more than ten cDNAs of Kir channel subunits have been isolated and classified into four subfamilies: 1) IRK subfamily (IRK1-3...

...1-1.3), 2) GIRK subfamily (GIRK1-4/Kir3.1-3.4), 3) ATP-dependent Kir subfamily (ROMK1/Kir1.1, K(AB)-2/Kir4.1), and 4) ATP-sensitive Kir subfamily (uKATP-1/Kir6.1, BIR/Kir6.2). Xenopus oocytes injected with the cRNAs of IRKs elicit classical Kir channel currents. GIRKs, as heteromultimers, compose the G protein-gated Kir (KG) channels, which are regulated by a variety of Gi /Go-coupled inhibitory neurotransmitter receptors such as m2-mus-carinic, serotonergic (5HT1A), GABAB, somatostatin and...

... receptors, the so-called ATP-sensitive K+ channels. Thus, it is a feature of the Kir channel family that each subfamily plays a specific physiological functional role. The (Na+)-activated Kir channels identified electrophysiologically in neurons and cardiac myocytes have not yet been cloned. In this...

... of the features of the molecular structures and functions of the four main subfamilies of Kir channels.

6/3,K/6 (Item 1 from file: 5)

0014833252 BIOSIS NO.: 200400200885
Expression profile of mRNA for voltage - activated Na!+ channels and leak K+ channels in pre - Botzinger complex inspiratory neurons studied by single - cell RT - PCR.
AUTHOR: Moorjani B (Reprint); Zhang R (Reprint); Koizumi H (Reprint); Smerin S E (Reprint); Smith J C (Reprint)
AUTHOR ADDRESS: Lab. Neural Control, NIH/NINDS, Bethesda, MD, USA**USA
JOURNAL: Society for Neuroscience Abstract Viewer and Itinerary Planner 2003 pAbstract No. 503.21 2003 2003
MEDIUM: e-file
CONFERENCE/MEETING: 33rd Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 08-12, 2003; 20031108
SPONSOR: Society of Neuroscience
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Persistent Na+ (INaP) and leak K+ (ILEAK) channels, including inwardly rectifying (Kir) and TASK channels (see Smerin et al., this volume), have been implicated in the generation...
...which are candidates for channels mediating INaP, and to detect alpha subunit mRNA for the Gi /o protein-coupled inward rectifier Kir3.1 as well as the two-pore, acid-sensitive...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: Gi /o protein...

... Kir ;

6/3,K/7 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014371620 BIOSIS NO.: 200300329916
Agonist unbinding from receptor dictates the nature of deactivation kinetics of G protein-gated K+ channels.
AUTHOR: Benians Amy; Leaney Joanne L; Tinker Andrew (Reprint)
AUTHOR ADDRESS: Department of Medicine, Centre for Clinical Pharmacology and British Heart Foundation Laboratories, University College London, 5 University Street, Room 420, 4th Floor, London, WC1E 6JJ, UK**UK
AUTHOR E-MAIL ADDRESS: a.tinker@ucl.ac.uk
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 100 (10): p6239-6244 May 13, 2003 2003
MEDIUM: print
ISSN: 0027-8424 _(ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: G protein-gated inwardly rectifying K+ (Kir) channels are found in neurones, atrial myocytes, and endocrine cells and are involved in generating...

...are activated by G protein-coupled receptors (GPCRs) via the inhibitory family of G protein, Gi /o, in a membrane-delimited fashion by the direct binding of Gbetagamma dimers to the...

6/3,K/8 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014337567 BIOSIS NO.: 200300295386
Endothelium-derived hyperpolarising factor is C-type natriuretic peptide in mesenteric resistance arteries.
AUTHOR: Hobbs Adrian J (Reprint); Chauhan Sharmila D; Nilsson Holger; Ahluwalia Amrita
AUTHOR ADDRESS: Wolfson Institute for Biomedical Research, University College London, Cruciform Building, Gower Street, London, London, WC1E 6AE, UK**UK
AUTHOR E-MAIL ADDRESS: a.hobbs@ucl.ac.uk; s.d.chauhan@qmul.ac.uk; holger.nilsson@fi.au.dk; a.ahluwalia@qmul.ac.uk
JOURNAL: FASEB Journal 17 (4-5): pAbstract No. 149.3 March 2003 2003
MEDIUM: e-file
CONFERENCE/MEETING: FASEB Meeting on Experimental Biology: Translating the Genome San Diego, CA, USA April 11-15, 2003; 20030411
SPONSOR: FASEB
ISSN: 0892-6638 _(ISSN print)
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: biological activity of EDHF. Both produce identical smooth muscle hyperpolarisations attenuated by high [K+], the Gi -inhibitor pertussis toxin, the G-protein-gated KIR channel inhibitor tertiapin, and Ba2+ (KIR channel blocker) plus ouabain (Na+/K+-ATPase inhibitor). Responses to EDHF and CNP are unaffected...

...CNP activates vascular smooth muscle NPR-C to promote Ba2+/ouabain-sensitive hyperpolarisation via a Gi -coupling. Thus, we have revealed the identity of EDHF and established a pivotal role for...

6/3,K/9 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014335243 BIOSIS NO.: 200300293062
EXPRESSION PROFILE OF M RNA FOR VOLTAGE - ACTIVATED SODIUM CHANNELS, INWARD RECTIFIER AND TASK - 1 POTASSIUM CHANNELS IN THE PRE - BoTZINGER COMPLEX.
AUTHOR: Moorjani B (Reprint); Zhang R (Reprint); Koizumi H (Reprint); Zummo G G; McCrimmon D R; Smith J C (Reprint)
AUTHOR ADDRESS: Laboratory of Neural Control, NINDS, NIH, Bethesda, MD, USA **USA
JOURNAL: Society for Neuroscience Abstract Viewer and Itinerary Planner 2002 pAbstract No. 173.4 2002 2002
MEDIUM: cd-rom
CONFERENCE/MEETING: 32nd Annual Meeting of the Society for Neuroscience Orlando, Florida, USA November 02-07, 2002; 20021102
SPONSOR: Society for Neuroscience
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Persistent Na + and leak K + channels including inwardly rectifying (Kir) and TASK-1 channels (see Smerin and Smith, this volume) have been implicated in the...
...candidates for channels mediating persistent Na + current, and to detect alpha subunit mRNA for the Gi /o protein-coupled inward rectifiers Kir3.1 and 3.4 as well as the acid...

6/3,K/10 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0013074837 BIOSIS NO.: 200100246676
Putative catecholamine receptors in C. elegans regulate inwardly rectifying potassium channels
AUTHOR: Bigras Eve (Reprint); Sanyal Suparna; Hubert Terence E (Reprint); Van Tol Hubert H
AUTHOR ADDRESS: Montreal Heart Institute, 5000 Belanger est, Montreal, Quebec, H1T 1C8, Canada**Canada
JOURNAL: FASEB Journal 15 (5): pA898 March 8, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001 Orlando, Florida, USA March 31-April 04, 2001; 20010331
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: rectifying potassium channel Kir3.2. Neither receptor could stimulate Kir3.2 using the endogenous oocyte Gi /Go or co-expressed C. elegans Go-alpha subunits in response to dopamine or norepinephrine...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: Kir -3.2...

6/3,K/11 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0011516911 BIOSIS NO.: 199800311158
Agonist-independent inactivation and agonist-induced densitization of the G protein-activated k+ channel (GIRK) in Xenopus oocytes
AUTHOR: Vorobiov Dmitry; Levin Gal; Lotan Ilana; Dascal Nathan (Reprint)
AUTHOR ADDRESS: Dep. Physiol. Pharmacology, Sackler Sch. Med., Tel Aviv Univ., Ramat Aviv 69978, Israel**Israel
JOURNAL: Pfluegers Archiv European Journal of Physiology 436 (1): p56-68 June, 1998 1998
MEDIUM: print
ISSN: 0031-6768
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The G-protein-activated K+ channels of the GIRK (Kir 3) family are activated by Gbetagamma subunits of heterotrimeric Gi /Go proteins. Atrial GIRK currents evoked by acetylcholine (ACh)1 via muscarinic m2 receptors (m2R...
?

Set	Items	Description
S1	0	(BIO-ABLATION)
S2	14	(KIR/GEM AND GI)
S3	0	S2 AND VECTOR
S4	1	S2 AND (CARDIAC OR ARRHYTHMIAS)

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S5          13   S2 NOT PY>2003
S6          11   RD  (unique items)
?

S (L (W) TYPE (W) CALCIUM (W) CHANNELS) AND GI
          2094644  L
          2625298  TYPE
          1115621  CALCIUM
           287434  CHANNELS
             4393  L(W)TYPE(W)CALCIUM(W)CHANNELS
            42207  GI
       S7      19  (L (W) TYPE (W) CALCIUM (W) CHANNELS) AND GI
?

S S7 NOT PY>2003
               19  S7
          4322248  PY>2003
       S8      17  S7 NOT PY>2003
?

S S8 AND VECTOR
               17  S8
           313949  VECTOR
       S9       0  S8 AND VECTOR
?

S S8 AND (CARDIAC OR ARRHYTHMIAS)
               17  S8
           859568  CARDIAC
            78957  ARRHYTHMIAS
      S10       2  S8 AND (CARDIAC OR ARRHYTHMIAS)
?

T S10/3,K/ALL

  10/3,K/1      (Item 1 from file: 5)
DIALOG(R)File   5:Biosis Previews(R)
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0013163880   BIOSIS NO.: 200100335719
 Functional expression and characterization of a voltage-gated CaV1.3
 (alpha1D) calcium channel subunit from an insulin-secreting cell line
AUTHOR: Scholze Alexandra; Plant Tim D; Dolphin Annette C; Nuernberg Bernd
  (Reprint)
AUTHOR ADDRESS: Abteilung fuer Pharmakologie und Toxikologie, Universitaet
  Ulm, Albert-Einstein Allee 11, D-89081, Ulm, Germany**Germany
JOURNAL: Molecular Endocrinology  15 (7): p1211-1221 July, 2001 2001
MEDIUM: print
ISSN: 0888-8809
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT:  L - type   calcium   channels  mediate depolarization-induced
  calcium influx in insulin-secreting cells and are thought to be modulated
  ...

...HIT-T15 cells. In doing so, we compared this neuroendocrine Cav1.3
  channel with the  cardiac  L-type channel Cav1.2a (or alpha1C-a) after
  expression together with alpha2delta- and beta3...
```

...for the neuroendocrine Cav1.3 channel were shifted to more negative potentials compared with the cardiac Cav1.2 channel. In addition, the Cav1.3 channel activated and inactivated more rapidly than...

...isradipine. More interestingly, the Cav1.3 channels were found to be stimulated by ligand-bound Gi /Go-coupled GPCRs whereas a neuronal Cav2.2 (or alpha1B) channel was inhibited. The observed...

...together, we describe a neuroendocrine L-type Cav1.3 calcium channel that is stimulated by Gi /Go-coupled GPCRs and differs significantly in distinct biophysical characteristics from the cardiac subtype (Cav1.2a), suggesting that the channels have different roles in native cells.
DESCRIPTORS:
...ORGANISMS: PARTS ETC: cardiac L-type channel

10/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0012908865 BIOSIS NO.: 200100080704
Modulation of L-type Ca2+ channels by Gbetagamma and calmodulin via interactions with N and C termini of alpha1C
AUTHOR: Ivanina Tatiana; Blumenstein Yakov; Shistik Elena; Barzilai Rachel; Dascal Nathan (Reprint)
AUTHOR ADDRESS: Department of Physiology and Pharmacology, Sackler School of Medicine, Tel Aviv University, Ramat Aviv, 69978, Israel**Israel
JOURNAL: Journal of Biological Chemistry 275 (51): p39846-39854 December 22, 2000 2000
MEDIUM: print
ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: of the N (alpha1B) and P/Q (alpha1A) type are inhibited by neurotransmitters that activate Gi /o G proteins; a major part of the inhibition is voltage-dependent, relieved by depolarization...

...results from a direct binding of Gbetagamma subunit of G proteins to the channel. Since cardiac and neuronal L-type (alpha1C) voltage-dependent Ca2+ channels are not modulated in this way...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... L - type calcium channels ;
?

Set	Items	Description
S1	0	(BIO-ABLATION)
S2	14	(KIR/GEM AND GI)
S3	0	S2 AND VECTOR
S4	1	S2 AND (CARDIAC OR ARRHYTHMIAS)
S5	13	S2 NOT PY>2003
S6	11	RD (unique items)
S7	19	(L (W) TYPE (W) CALCIUM (W) CHANNELS) AND GI
S8	17	S7 NOT PY>2003
S9	0	S8 AND VECTOR
S10	2	S8 AND (CARDIAC OR ARRHYTHMIAS)

?

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S S8 NOT S10
              17  S8
               2  S10
     S11      15  S8 NOT S10
?

T S11/3,K/ALL
```

11/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

14615877 PMID: 14656287

5-HT inhibits N-type but not L-type Ca(2+) channels via 5-HT1A receptors in lamprey spinal neurons.

Hill Russell H; Svensson Erik; Dewael Yannick; Grillner Sten
Nobel Institute for Neurophysiology, Department of Neuroscience, Karolinska Institutet, S-17177 Stockholm, Sweden. Russell.Hill@neuro.ki.se

European journal of neuroscience (France) Dec 2003, 18 (11) p2919-24, ISSN 0953-816X--Print Journal Code: 8918110
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... also inhibited Ca(2+) currents in dissociated neurons. After incubation in pertussis toxin, to block Gi /o proteins, 5-HT did not reduce Ca(2+) currents, further indicating that the effect...
Chemical Name: Anesthetics, Local; Calcium Channel Blockers; Calcium Channels, L - Type ; Calcium Channels , N-Type; Free Radical Scavengers ; Potassium Channel Blockers; Serotonin Agonists; Receptor, Serotonin, 5-HT1A; Tetrodotoxin...

11/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

13369967 PMID: 11533141

Somatostatin inhibits exocytosis in rat pancreatic alpha-cells by G(i2)-dependent activation of calcineurin and depriming of secretory granules.

Gromada J; Hoy M; Buschard K; Salehi A; Rorsman P
Laboratory of Islet Cell Physiology, Novo Nordisk A/S, Novo Alle, DK-2880 Bagsvaerd, Denmark.

Journal of physiology (England) Sep 1 2001, 535 (Pt 2) p519-32, ISSN 0022-3751--Print Journal Code: 0266262
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

...Descriptors: analogs and derivatives--AA; *Calcineurin--metabolism--ME ; *Exocytosis--physiology--PH; *GTP-Binding Protein alpha Subunits, Gi -Go --metabolism--ME; *Islets of Langerhans--metabolism--ME; *Proto-Oncogene Proteins--metabolism--ME; *Somatostatin--pharmacology...
...; DE; Forskolin--pharmacology--PD; GTP-Binding Protein alpha Subunit,

Gi2; GTP-Binding Protein alpha Subunits, Gi -Go--genetics--GE; Membrane Potentials--drug effects--DE; Membrane Potentials--physiology--PH; Nifedipine--pharmacology--PD...
...Enzyme No.: Binding Protein alpha Subunit, Gi2); EC 3.6.1.46 (GTP-Binding Protein alpha Subunits, Gi -Go); EC 3.6.1.46 (Gnai2 protein, rat)
Chemical Name: Calcium Channel Blockers; Calcium Channels, L - Type ; Calcium Channels , N-Type; Oligoribonucleotides, Antisense; Proto-Oncogene Proteins; Nifedipine; 5'-adenylyl (beta,gamma-methylene)diphosphonate; Somatostatin...

...Phosphoric Monoester Hydrolases; Calcineurin; GTP-Binding Protein alpha Subunit, Gi2; GTP-Binding Protein alpha Subunits, Gi -Go; Gnai2 protein, rat

11/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12744143 PMID: 10850736
Cellular mechanism of action of cognitive enhancers: effects of nefiracetam on neuronal Ca2+ channels.
Yoshii M; Watabe S; Murashima Y L; Nukada T; Shiotani T
Department of Neurophysiology, Tokyo Institute of Psychiatry, Japan.
Alzheimer disease and associated disorders (UNITED STATES) 2000, 14 Suppl 1 pS95-102, ISSN 0893-0341--Print Journal Code: 8704771
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... Ca2+ channel currents inhibited by leucine (Leu)-enkephalin by means of inhibitory G proteins (Go/ Gi) were recovered promptly by nefiracetam, whereas those inhibited by prostaglandin E1 via stimulatory G proteins...

...L-type Ca2+ channels in a differential way depending on how they recover from Go/ Gi -mediated inhibition.
Chemical Name: Calcium Channels, L - Type ; Calcium Channels , N-Type ; Nootropic Agents; Pyrrolidinones; Cyclic AMP; nefiracetam; GTP-Binding Proteins

11/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12451447 PMID: 10391942
Angiotensin II negatively modulates L-type calcium channels through a pertussis toxin-sensitive G protein in adrenal glomerulosa cells.
Maturana A D; Casal A J; Demaurex N; Vallotton M B; Capponi A M; Rossier M F
Division of Endocrinology and Diabetology, Department of Internal Medicine, University Hospital, 24 rue Micheli-du-Crest,CH-1211 Geneva 14, Switzerland.
Journal of biological chemistry (UNITED STATES) Jul 9 1999, 274 (28) p19943-8, ISSN 0021-9258--Print Journal Code: 2985121R
Publishing Model Print
Document type: Journal Article

Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Angiotensin II negatively modulates L - type calcium channels through a pertussis toxin-sensitive G protein in adrenal glomerulosa cells.
... 3 mM) and high (9 mM) K+ concentrations. Finally, the expression of both Go and Gi proteins in bovine glomerulosa cells was detected by immunoblotting. Altogether, these results strongly suggest that...

11/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12315449 PMID: 10024356
Activation of human D3 dopamine receptor inhibits P/Q-type calcium channels and secretory activity in AtT-20 cells.
Kuzhikandathil E V; Oxford G S
Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina 27599, USA.
Journal of neuroscience - the official journal of the Society for Neuroscience (UNITED STATES) Mar 1 1999, 19 (5) p1698-707, ISSN 0270-6474--Print Journal Code: 8102140
Contract/Grant No.: NS18788; NS; NINDS
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

...; Cell Line; Cytoplasmic Granules--metabolism--ME; Dopamine Agonists --pharmacology--PD; GTP-Binding Protein alpha Subunits, Gi -Go--metabolism --ME; GTP-Binding Proteins--metabolism--ME; Humans; In Vitro; Mice; Nimodipine--pharmacology--PD...
...Enzyme No.: 6.1.- (GTP-Binding Proteins); EC 3.6.1.46 (GTP-Binding Protein alpha Subunits, Gi -Go); EC 3.6.1.46 (Heterotrimeric GTP-Binding Proteins)
Chemical Name: Calcium Channel Blockers; Calcium Channels; Calcium Channels, L - Type ; Calcium Channels , N-Type; DRD3 protein, human; Dopamine Agonists; Drd3 protein, mouse; GNAZ protein, human; GTP-Binding...

...Somatostatin; Nimodipine; Barium; Calcium; Quinpirole; Pertussis Toxin; GTP-Binding Proteins; GTP-Binding Protein alpha Subunits, Gi -Go; Heterotrimeric GTP-Binding Proteins

11/3,K/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10453614 PMID: 7746286
Gi is involved in ethanol inhibition of L-type calcium channels in undifferentiated but not differentiated PC-12 cells.
Mullikin-Kilpatrick D; Mehta N D; Hildebrandt J D; Treistman S N
Department of Pharmacology, University of Massachusetts Medical Center, Worcester 01655, USA.
Molecular pharmacology (UNITED STATES) May 1995, 47 (5) p997-1005, ISSN 0026-895X--Print Journal Code: 0035623
Contract/Grant No.: AA05542; AA; NIAAA; DK37219; DK; NIDDK

Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Gi is involved in ethanol inhibition of L - type calcium channels in undifferentiated but not differentiated PC-12 cells.

11/3,K/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10222090 PMID: 7965099
The metabotropic glutamate receptor types 2/3 inhibit L-type calcium channels via a pertussis toxin-sensitive G-protein in cultured cerebellar granule cells.
Chavis P; Shinozaki H; Bockaert J; Fagni L
Centre CNRS-INSERM de Pharmacologie et d'Endocrinologie, Montpellier, France.
Journal of neuroscience - the official journal of the Society for Neuroscience (UNITED STATES) Nov 1994, 14 (11 Pt 2) p7067-76, ISSN 0270-6474--Print Journal Code: 8102140
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

The metabotropic glutamate receptor types 2/3 inhibit L - type calcium channels via a pertussis toxin-sensitive G-protein in cultured cerebellar granule cells.
...or mGluR3 receptors suppress the activity of L-type Ca2+ channels by a mechanism involving Gi or G(o) proteins. A likely direct effect of G-proteins on the channels is...

11/3,K/8 (Item 8 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10218802 PMID: 7962103
Slow oscillations of free intracellular calcium ion concentration in human fibroblasts responding to mechanical stretch.
Arora P D; Bibby K J; McCulloch C A
Faculty of Dentistry, University of Toronto, Ontario, Canada.
Journal of cellular physiology (UNITED STATES) Nov 1994, 161 (2) p187-200, ISSN 0021-9541--Print Journal Code: 0050222
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... or 250 microM verapamil, suggesting an influx of calcium through stretch-activated (SA) channels and L - type calcium channels . Depolarization by high KCl (144 mM) in the extracellular medium enhanced the amplitude of calcium...

... inhibitor or cytochalasin D, an inhibitor of actin polymerization, or pertussis toxin, an inhibitor of Gi alpha and G(o) alpha subunits, completely abolished calcium transients and oscillations. These results indicate...

11/3,K/9 (Item 9 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10218592 PMID: 7961939
Both alpha 1A- and alpha 2A-adrenoreceptor subtypes stimulate voltage-operated L-type calcium channels in rat portal vein myocytes. Evidence for two distinct transduction pathways.
Lepretre N; Mironneau J; Morel J L
Laboratoire de Physiologie Cellulaire et Pharmacologie Moleculaire, CNRS URA 1489, Universite de Bordeaux II, France.
Journal of biological chemistry (UNITED STATES) Nov 25 1994, 269 (47) p29546-52, ISSN 0021-9258--Print Journal Code: 2985121R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Both alpha 1A- and alpha 2A-adrenoreceptor subtypes stimulate voltage-operated L - type calcium channels in rat portal vein myocytes. Evidence for two distinct transduction pathways.
... from intracellular stores. These data suggest that two distinct G-proteins, probably Gq/G11 and Gi , coupled to alpha 1A- and alpha 2A-adrenoreceptors regulate calcium influx through voltage-operated calcium ...

11/3,K/10 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014473683 BIOSIS NO.: 200300428527
Chick RGS2L demonstrates concentration-dependent selectivity for Gq/11 and Gi/o pathways that inhibit L-type calcium channels.
AUTHOR: Tosetti P; Parente V (Reprint); Taglietti V (Reprint); Dunlap K; Toselli M (Reprint)
AUTHOR ADDRESS: Pavia University and INFM, Pavia, Italy**Italy
JOURNAL: European Biophysics Journal 32 (3): p322 June 2003 2003
MEDIUM: print
CONFERENCE/MEETING: 4th European Biophysics Congress Alicante, Spain July 05-09, 2003; 20030705
SPONSOR: European Biophysical Societies' Association (EBSA)
Spanish Biophysics Society
ISSN: 0175-7571
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster
RECORD TYPE: Citation
LANGUAGE: English

Chick RGS2L demonstrates concentration-dependent selectivity for Gq/11 and Gi /o pathways that inhibit L - type calcium channels .
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... Gi /o

11/3,K/11 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0012949047 BIOSIS NO.: 200100120886
Neuromodulatory actions of the chemokine IL-8 on calcium in rat septal cholinergic neurons
AUTHOR: Puma C (Reprint); Danik M; Quirion R; Williams S
AUTHOR ADDRESS: Douglas Hosp. Res. Ctr., McGill Univ., Verdun, PQ, Canada** Canada
JOURNAL: Society for Neuroscience Abstracts 26 (1-2): pAbstract No.-713.5 2000 2000
MEDIUM: print
CONFERENCE/MEETING: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000; 20001104
SPONSOR: Society for Neuroscience
ISSN: 0190-5295
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: calcium evoked with 15s applications of 25 mMK+ This rapid inhibition was sensitive to the Gi -Go blocker N-ethylmaleimide (NEM) when it was pre-applied for 2 min at 50...
...n=6). In some cells (4/6), the IL-8 mediated reduction also involved a Gi -Go G protein since it was sensitive to 50 muM NEM. Application of 3 muM...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... L - type calcium channels ;

11/3,K/12 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0012356898 BIOSIS NO.: 200000075211
Role of neuropeptide-sensitive L-type Ca2+ channels in histamine release in gastric enterochromaffin-like cells
AUTHOR: Zeng Ningxin; Athmann Christoph; Kang Tao; Walsh John H; Sachs George (Reprint)
AUTHOR ADDRESS: Wadsworth Veterans Affairs Hospital, Los Angeles, CA, USA** USA
JOURNAL: American Journal of Physiology 277 (6 part 1): pG1268-G1280 Dec. , 1999 1999
MEDIUM: print
ISSN: 0002-9513
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: and the channel opening is inhibited by somatostatin, PYY, and galanin by interaction with a Gi or Go protein.
DESCRIPTORS:
MISCELLANEOUS TERMS: neuropeptide-sensitive L - type calcium channels ;

11/3,K/13 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0012125724 BIOSIS NO.: 199900385384
Angiotensin II negatively modulates L-type calcium channels through a pertussis toxin-sensitive G protein in adrenal glomerulosa cells
AUTHOR: Maturana Andres D; Casal Andres J; Demaurex Nicolas; Vallotton Michel B; Capponi Alessandro M; Rossier Michel F (Reprint)
AUTHOR ADDRESS: Division of Endocrinology and Diabetology, Department of Internal Medicine, University Hospital, 24 rue Micheli-du-Crest, CH-1211, Geneva, 14, Switzerland**Switzerland
JOURNAL: Journal of Biological Chemistry 274 (28): p19943-19948 July 9, 1999 1999
MEDIUM: print
ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

Angiotensin II negatively modulates L - type calcium channels through a pertussis toxin-sensitive G protein in adrenal glomerulosa cells

...ABSTRACT: 3 mM) and high (9 mM) K+ concentrations. Finally, the expression of both Go and Gi proteins in bovine glomerulosa cells was detected by immunoblotting. Altogether, these results strongly suggest that...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... L - type calcium channels

11/3,K/14 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0009621006 BIOSIS NO.: 199598088839
Alpha-2-Adrenoceptors activate dihydropyridine-sensitive calcium channels via G-proteins and protein kinase C in rat portal vein myocytes
AUTHOR: Lepretre N; Mironneau J (Reprint)
AUTHOR ADDRESS: Laboratorie de Physiologie Cellulaire et Pharmacologie Molecularie, URA CNRS 1489, Universite Bordeaux II, 3 place de la Victoire, F-33076 Bordeaux Cedex, France**France
JOURNAL: Pfluegers Archiv European Journal of Physiology 429 (2): p253-261 1994 1994
ISSN: 0031-6768
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: both calcium channel current and (Ca-2+)-i were obtained with mastoparan, an activator of Gi -proteins. Activation of calcium influx by both alpha-2A-adrenoceptors and mastoparan was reduced by...

...inhibitor). These data suggest that activation of protein kinase C through a transduction pathway involving Gi -proteins phosphorylates voltage-activated L - type calcium channels and thus, increases their opening probability.

11/3,K/15 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE

05953653 EMBASE No: 1994362829
alphainf 2-Adrenaceptors activate dihydropyridine-sensitive calcium channels via Gi-proteins and protein kinase C in rat portal vein myocytes
Lepretre N.; Mironneau J.
Laboratoire Physiologie Cellulaire, URA CNRS 1489, Universite Bordeaux II, 3 Place de la Victoire,F-33076 Bordeaux Cedex France
Pflugers Archiv European Journal of Physiology (PFLUG. ARCH. EUR. J. PHYSIOL.) (Germany) 1994, 429/2 (253-261)
CODEN: PFLAB ISSN: 0031-6768
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

alphainf 2-Adrenaceptors activate dihydropyridine-sensitive calcium channels via Gi -proteins and protein kinase C in rat portal vein myocytes

...both calcium channel current and (Casup 2sup +)(i) were obtained with mastoparan, an activator of Gi -proteins. Activation of calcium influx by both alpha(2A)-adrenoceptors and mastoparan was reduced by...

...inhibitor). These data suggest that activation of protein kinase C through a transduction pathway involving Gi -proteins phosphorylates voltage-activated L - type calcium channels and thus, increases their opening probability.
?

Set	Items	Description
S1	0	(BIO-ABLATION)
S2	14	(KIR/GEM AND GI)
S3	0	S2 AND VECTOR
S4	1	S2 AND (CARDIAC OR ARRHYTHMIAS)
S5	13	S2 NOT PY>2003
S6	11	RD (unique items)
S7	19	(L (W) TYPE (W) CALCIUM (W) CHANNELS) AND GI
S8	17	S7 NOT PY>2003
S9	0	S8 AND VECTOR
S10	2	S8 AND (CARDIAC OR ARRHYTHMIAS)
S11	15	S8 NOT S10

?

COST
23aug06 10:24:53 User259876 Session D910.2
$3.20 0.940 DialUnits File155
$3.30 15 Type(s) in Format 3
$3.30 15 Types
$6.50 Estimated cost File155
$6.45 1.075 DialUnits File5
$28.60 13 Type(s) in Format 3
$28.60 13 Types
$35.05 Estimated cost File5
$7.83 0.699 DialUnits File73
$3.10 1 Type(s) in Format 3
$3.10 1 Types
$10.93 Estimated cost File73
OneSearch, 3 files, 2.715 DialUnits FileOS
$2.13 INTERNET
$54.61 Estimated cost this search
$55.47 Estimated total session cost 2.946 DialUnits
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